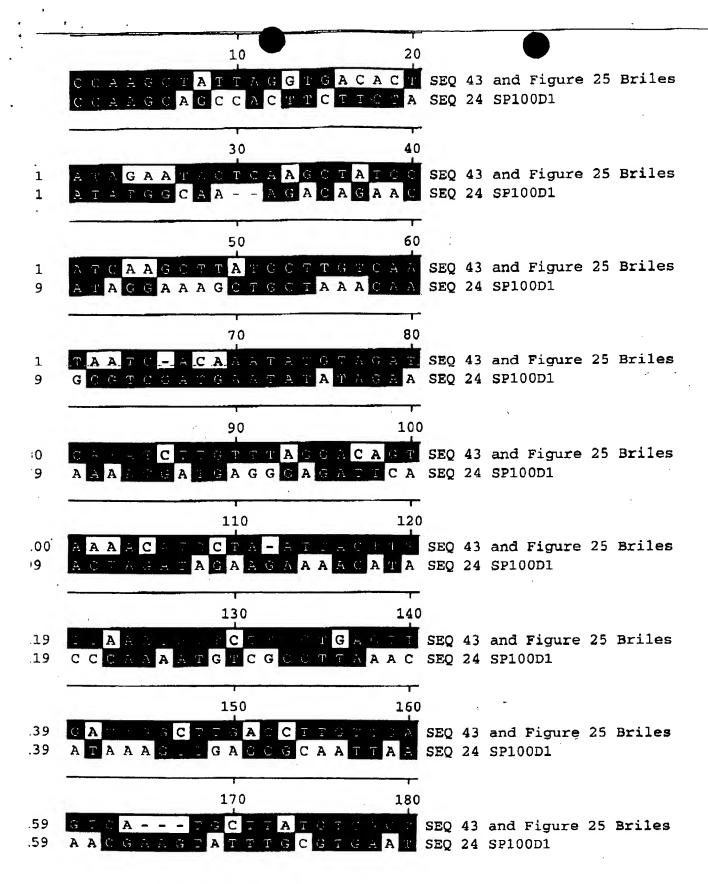
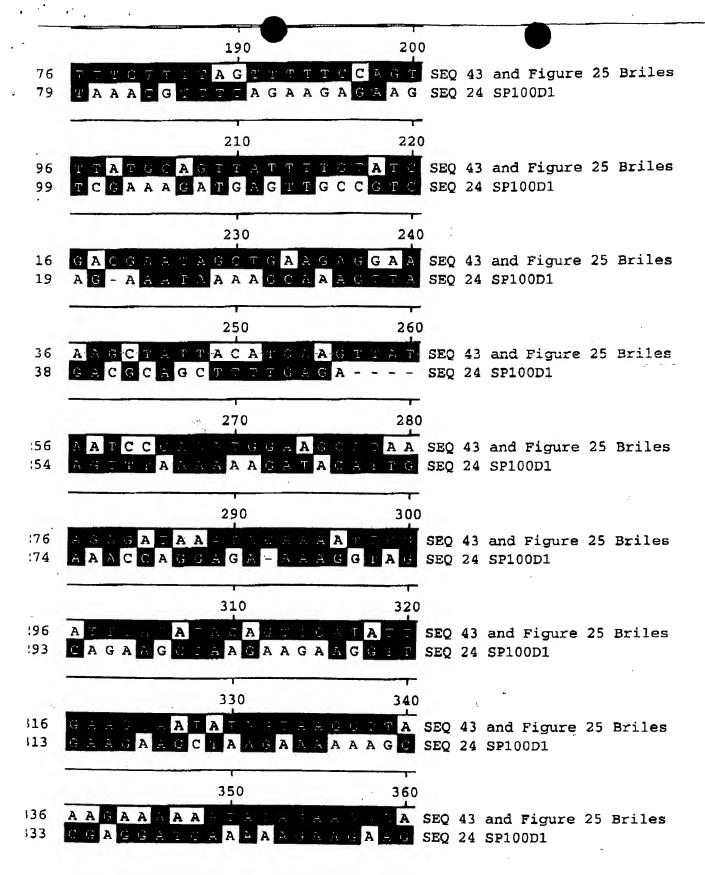
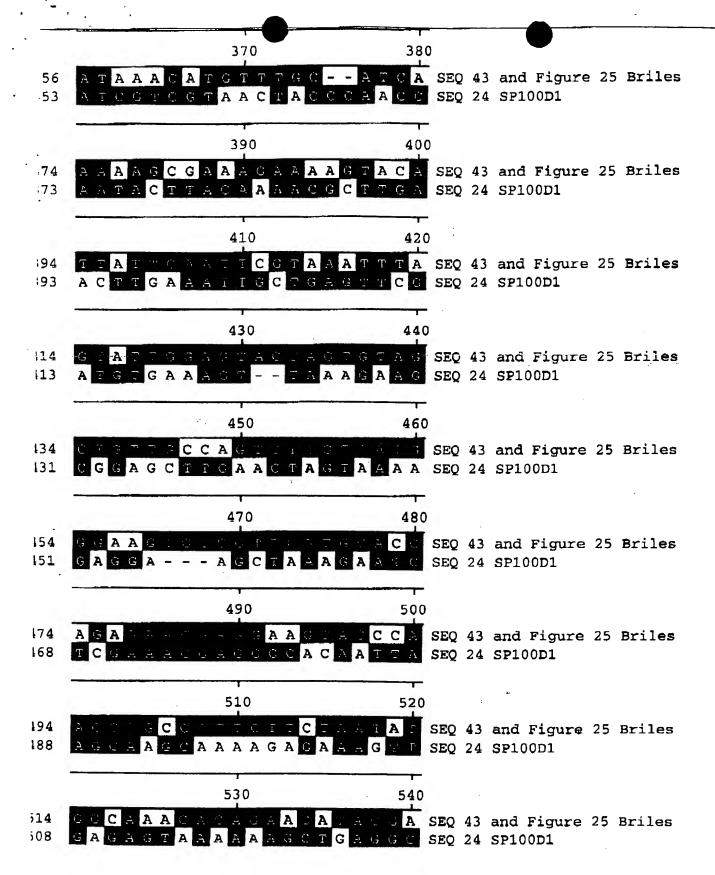
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| 1 | C | = |
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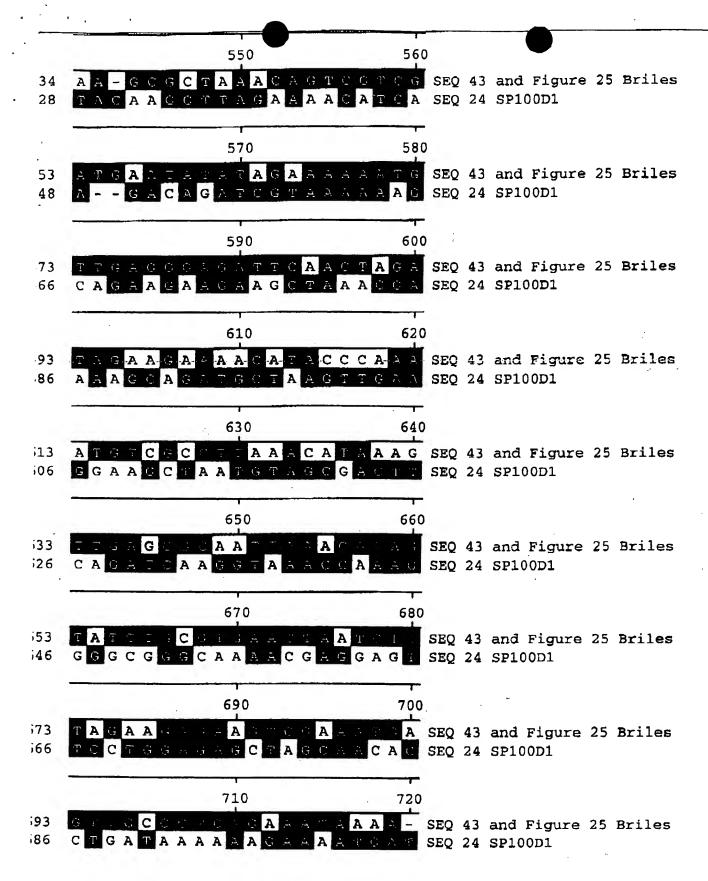
| Percent Identity | | | | | | | | | | | | | |
|------------------|------|------|---|--|--|--|--|--|--|--|--|--|--|
| | 1 | 2 | | | | | | | | | | | |
| 1 | | 66.1 | 1 | | | | | | | | | | |
| 2 | 45.3 | | 2 | | | | | | | | | | |
| | 1 | 2 | | | | | | | | | | | |

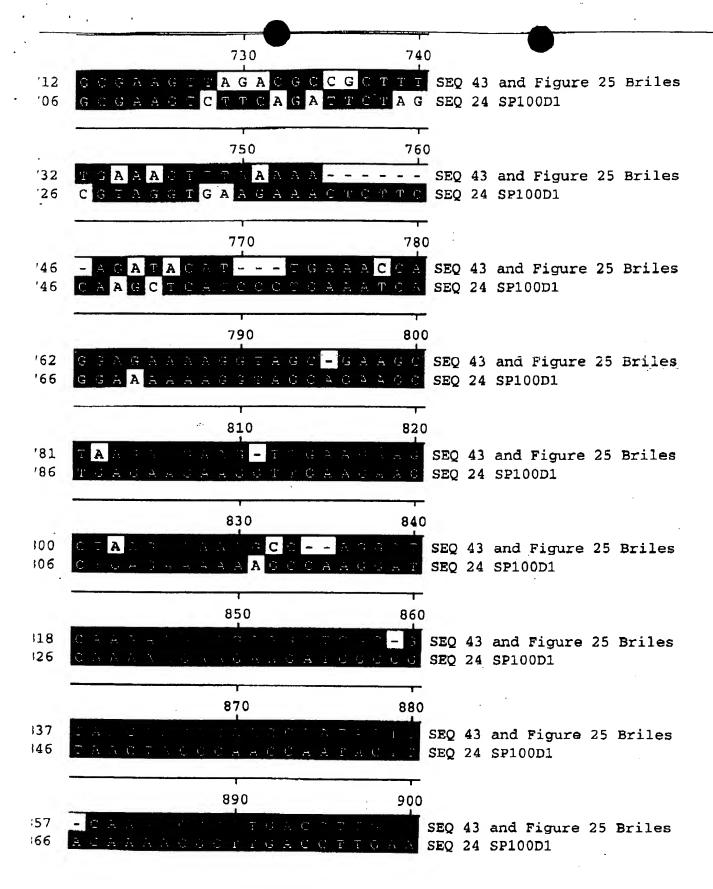
SEQ 43 and Figure 25 Briles SEQ 24 SP100D1

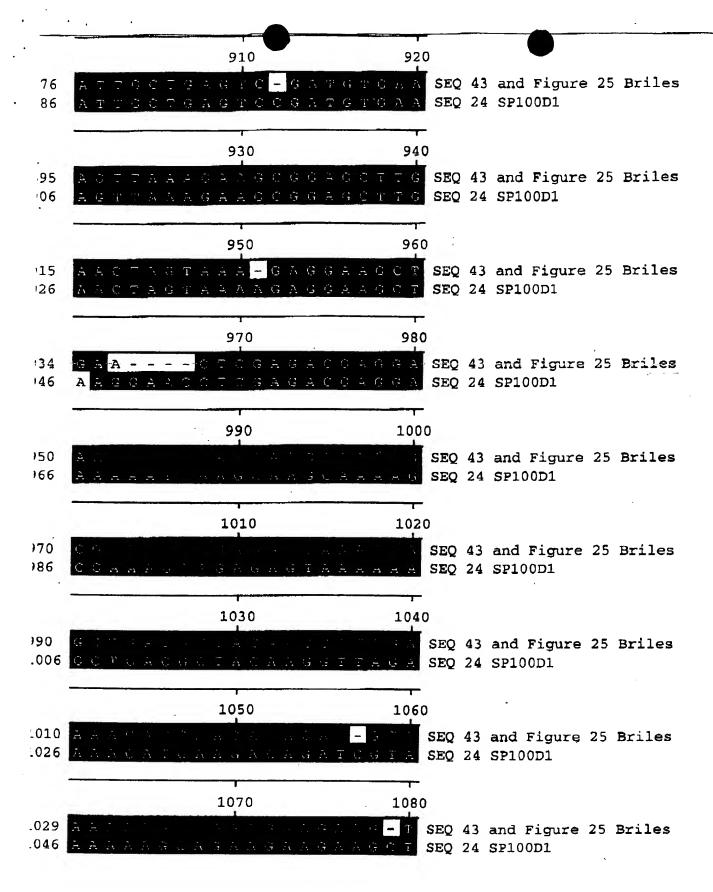


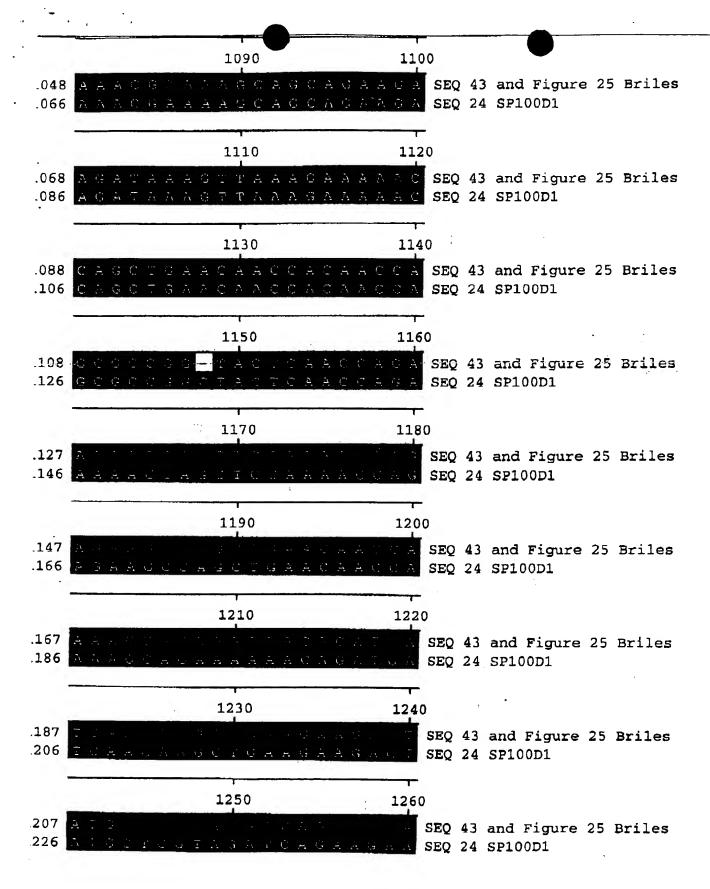


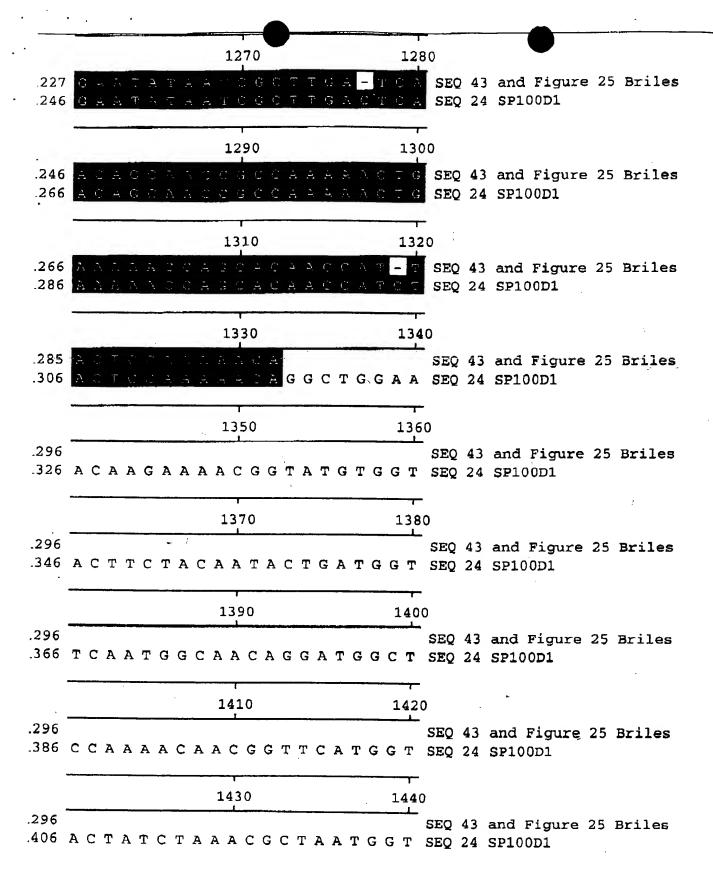












| | 1450 | 1460 |
|--------------|---------------------------------|---|
| .296 .426 | GCTATGGCGACAGGAT | SEQ 43 and Figure 25 Briles G G C T SEQ 24 SP100D1 |
| | 1470 | 1480 |
| .446 | CCAAAACAATGGTTCA | SEQ 43 and Figure 25 Briles T G G T SEQ 24 SP100D1 |
| | 1490 | 1500 |
| .296 .466 | ACTATCTAAACGCTAA | SEQ 43 and Figure 25 Briles TGGT SEQ 24 SP100D1 |
| | 1510 | 1520 |
| .296 .486 | TCAATGGCAACAGGAT | SEQ 43 and Figure 25 Briles G G C T SEQ 24 SP100D1 |
| | 1530 | 1540 |
| .296 .506 | C C A A A A C A A T G G T T C A | SEQ 43 and Figure 25 Briles T G G T SEQ 24 SP100D1 |
| | 1550 | 1560 |
| .296 .526 | ACTACCTAAACGCTAA | SEQ 43 and Figure 25 Briles T G G T SEQ 24 SP100D1 |
| | 1570 | 1580 |
| .296 .546 | GCTATGGCGACAGGAT | SEQ 43 and Figure 25 Briles G G C T SEQ 24 SP100D1 |
| • | 1590 | 1600 |
| .296 .566 | CCAATACAATGGTTCA | SEQ 43 and Figure 25 Briles T G G T SEQ 24 SP100D1 |
| • | 1610 | 1620 |
| .296 .586 | ACTACCTAAACAGCAA | SEQ 43 and Figure 25 Briles T G G C SEQ 24 SP100D1 |

| | | | | | | | | | | 7 | | 1 | _ | | | | | | | 7 | | | |
|------|----------|---|-----|-----|----------|---|---|---|-----|-----------|-----|----|---|----------|----|---|---|---|----|----------|----------|------|------------------------------|
| | | | | | | | | | 1 | L6: | 30 | | | | | | | | 1 | 64 | 10 | | |
| 296 | _ | | | | | | | | | 1 | | | | | | | | | | | - CEO | . 43 | and Figure 25 Briles |
| 606 | | ~ | Æ | Δ. | TT. | | C | _ | _ | 7 | _ | 71 | G | C | λ | T | G | c | ~ | T) | | | SP100D1 |
| 000 | G | C | 1 | Α. | . 1 | G | G | | G | Y | | | G | G | Α. | 1 | G | G | | 1 | SEQ | 24 | SPIOODI |
| | _ | _ | | | _ | | | | | - | | | _ | | | _ | | | | - | - | | |
| | | | | | | | | | 1 | 65 | 50 | | | | | | | | 1 | 66 | 0 | | |
| 296 | | | | - | | | | - | | | | | | | | | | | | | SEO | 43 | and Figure 25 Briles |
| | С | C | A | Α | T | Α | С | A | A | T | G | G | С | Т | C | A | Т | G | G | T | | | SP100D1 |
| • | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | - | 7 | | | | | | | | | - | ~ | • | | |
| | | | | | | | · | | | .67 | / U | | | | | | | | | 68 | | | |
| 296 | | | | | | | | | | | | | | | | | | | | | | | and Figure 25 Briles |
| .646 | A | С | T | A | C | C | T | C | A | A | C | G | С | T | A | A | Ť | G | G | T | SEQ | 24 | SP100D1 |
| | | | | | | | | | | _ | | | | | | | | | | _ | • | | |
| | | | | | | | | | 1 | 69 | 90 | | | | | | | , | 1 | 70 | 0 | | |
| .296 | _ | | | _ | | | | | | | | | | | | | _ | | | | CEA | AS | and Figure 25 Briles |
| | G | Δ | т | Δ | т | G | G | C | c | Δ | C | Δ | c | G | Δ | т | G | a | C | T | | | SP100D1 |
| .000 | J | | • | 4.3 | • | G | ٥ | | ٠ | • | _ | 71 | ٠ | • | ** | • | | G | Č | • | SHQ | 43 | SETOODI |
| | _ | | | | | | | | | | | | | | | - | | | | _ | • | | |
| | | | | | | | | | 1 | 71 | .0 | | | | | | | | 1 | 72 | 0 | | |
| .296 | | | | | | | | | | | | | | | | | | | | | SEQ | 43 | and Figure 25 Briles |
| .686 | C | C | A | A | A | A | C | A | A | C | G | G | T | T | C | A | T | G | G | T | SEQ | 24 | SP100D1 |
| | _ | | | | | | | | | | | | , | | | | | | | | | | |
| | | | | | | | | | 1 | 73 | 0 | | | | | | | | 1 | 74(| 0 | | |
| .296 | _ | | | | | _ | ; | | _ | | _ | | | | | | | | | ـَـــ | | 40 | 3 ml |
| .706 | Δ | C | ידי | Δ | c | C | т | _ | λ | 75 | _ | c | _ | יתי | 74 | 7 | m | _ | _ | m | | | and Figure 25 Briles SP100D1 |
| .,, | | | _ | ^ | <u> </u> | _ | 1 | _ | ^ | ^ | ٠ | G | C | 1 | A | A | 1 | G | G | Τ. | SEŲ | 24 | SPIOODI |
| | | | - | | | | | | | 1 | | | | | | | | _ | | Τ. | | | |
| | | | | | | | | | 1 | 7,5 | 0 | | | | | | | | 1 | 7,60 | 0 | | |
| .296 | | | | | | | | | | | | | | | | | | | | | SEO | 43 | and Figure 25 Briles |
| .726 | G | A | T | A | T | G | G | C | G | A | C | Α | G | G | A | Т | G | G | С | T | | | SP100D1 |
| | | | | | | | | | | • | | | | | | | | | | | | | |
| | | | | | | | | | 1 ' | ' 77 | n | | | | | | | | 1, | 1 780 | ٦ | | • |
| 206 | | | | | | | - | | | <u>''</u> | | | | | | | | | | , o (| | | |
| .296 | <u> </u> | ~ | | | _ | | _ | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | | | and Figure 25 Briles |
| .746 | Ų | Ċ | A | A | T | A | Ç | A | A | C | G | G | T | T | C | A | T | G | G | T | SEQ | 24 | SP100D1 |
| | _ | | | | | | | - | | - | | | | <u> </u> | | | | | | _ | | | |
| | | | | | | | | | 1' | 79 | 0 | | | | | | | | 18 | 300 |) | | |
| .296 | | | | | | | | | | | | - | | | | | - | | | <u> </u> | SEO | 43 | and Figure 25 Briles |
| | A | T | T | A | С | С | T | С | A. | Α | С | G | С | т | A. | Α | т | G | Ġ' | Т | | | SP100D1 |
| | | | | | | | | | | | | | | | | | | | | | _ | - | • |

| | 1810 | 1820 |
|--------------|---------------------|--|
| .296 | | SEQ 43 and Figure 25 Briles |
| .786 | GATATGGCGACAGGTTG | G G T SEQ 24 SP100D1 |
| | | |
| te | 1830 | 1840 |
| .296 | | SEQ 43 and Figure 25 Briles |
| .806 | GAAAGATGGAGATACCT | G G T SEQ 24 SP100D1 |
| | | |
| | 1850 | 1860 |
| .296 | | SEQ 43 and Figure 25 Briles |
| .826 | ACTATCTTGAAGCATCA | G G T SEQ 24 SP100D1 |
| | | |
| | 1870 | 1880 |
| .296 | GCTATGAAAGCAAGCCAA | SEQ 43 and Figure 25 Briles |
| .040 | GCTATGAAAGCAAGCCAA | A 1 G SEQ 24 SFIOODI |
| | 1890 | 1900 |
| 200 | | |
| .296 866 | GTTCAAAGTATCAGATA | SEQ 43 and Figure 25 Briles A A T SEO 24 SP100D1 |
| .000 | | |
| | 1910 | 1920 |
| .296 | • ; | SEQ 43 and Figure 25 Briles |
| .886 | GGTACTATGTCAATGGC | T C A SEQ 24 SP100D1 |
| | | |
| | 1930 | 1940 |
| .296 | | SEQ 43 and Figure 25 Briles |
| .906 | GGTGCCCTTGCAGTCAAC | C A C SEQ 24 SP100D1 |
| | | |
| | 1950 | 1960 |
| .296 | | SEQ 43 and Figure 25 Briles |
| .720 | AACTGTAGATGGCTATGG | S A G SEQ 24 SP100D1 |
| | 1020 | 1000 |
| 206 | 1970 | 1980 |
| .296 .946 | TCAATGCCAATGGTGAAT | SEQ 43 and Figure 25 Briles |
| ., =0 | - CHAIGCCAAIGGIGAAI | . G G SEG 54 SETOONI |

| • | 1990 | 2000 |
|-------------------|-------------------------------------|---|
| .296 .966 | G T A A A C T A A A C C T A A T A | SEQ 43 and Figure 25 Briles T A A SEQ 24 SP100D1 |
| • | 2010 | 2020 |
| .296 .986 • | CTAGTTAATACTGACTT | SEQ 43 and Figure 25 Briles C C T SEQ 24 SP100D1 |
| | 2030 | 2040 |
| .296 :006 | G T A A G A A C T T T T T A A A G . | SEQ 43 and Figure 25 Briles TAT SEQ 24 SP100D1 |
| | 2050 | 2060 |
| .296 !026 | TCCCTACAAATACCATAT | SEQ 43 and Figure 25 Briles T C C SEQ 24 SP100D1 |
| | 2070 | 2080 |
| .296 !046 | TTTCAGTAGATAATAC | SEQ 43 and Figure 25 Briles C C C SEQ 24 SP100D1 |
| | 2090 | 2100 |
| .296 1066 | TTGTAGGAAGTTTAGATT | SEQ 43 and Figure 25 Briles F A A SEQ 24 SP100D1 |
| | 2110 | 2120 |
| .296 !086 | AAAATAACTCTGTAATCT | SEQ 43 and Figure 25 Briles F C T SEQ 24 SP100D1 |
| | 2130 | 2140 |
| .296 !106 | AGCCGGATTTATAGCGCT | SEQ 43 and Figure 25 Briles F A G SEQ 24 SP100D1 |
| , | 2150 | 2160 |
| .296 :126 | AGACTACGGAGTTTTTT | SEQ 43 and Figure 25 Briles G A SEQ 24 SP100D1 |

• ,

| , | 2170 | 2180 | |
|--------------|-------------------|--|-------|
| 296 L46 | TGAGGAAAGAATGGCGG | SEQ 43 and Figure 25 B C A T SEQ 24 SP100D1 | riles |
| | 2190 | 2200 | riles |
| j66 396 | TCAAGAGACTCTTTAAG | | 11100 |
| | 2210 | 2220 | |
| 296 186 | GTTACGGGTTTTAAACT | SEQ 43 and Figure 25 B A T T SEQ 24 SP100D1 | riles |
| | 2230 | 2240 | |
| 296 206 | | SEQ 43 and Figure 25 B A A G SEQ 24 SP100D1 | riles |
| | | 0000 | |
| | 2250 | 2260 | rilec |
| 296 226 | AGGCTTCAATCTCTGCT | SEQ 43 and Figure 25 B A G G SEQ 24 SP100D1 | IIIES |
| | 2270 | 2280 | |
| 296 246 | GTGCTAGCTTGCGAAAT | SEQ 43 and Figure 25 B G G C SEQ 24 SP100D1 | riles |
| | 2290 | 2300 | |
| .296 | | SEQ 43 and Figure 25 B | riles |
| | TCCACGGAGTTTGGCAG | | |
| | 2310 | 2320 | |
| .296 !286 | CAGATGTTCCACGGAGA | SEQ 43 and Figure 25 B T A G SEQ 24 SP100D1 | riles |
| | 2330 | 2340 | |
| .296 !306 | TGAGGAGCGAGGCCGG | SEQ 43 and Figure 25 B G A A SEQ 24 SP100D1 | riles |

| | | | | | | | | | 2 | 35 | 0 | | | | | | | | 2 | 36 | 0 | | | | |
|------------|---|---|---|----|---|---|----|---|---|--------------------|---|---|---|---|---|-------------|---|---|-----|---------------------|---|------------------|---|----|--------|
| 296 326 | т | т | С | A | С | G | A | Α | С | т | G | С | G | A | С | G | Т | т | т | т | | and Fi | - | 25 | Briles |
| | | | | | | | | | 2 | 37 | 0 | • | | | | | | | 2 | 38 | 0 | | | | |
| 296 346 | С | т | С | С | т | T | .T | G | A | G | G | т | T | A | A | Т | С | A | A | т | _ | and Fi | - | 25 | Briles |
| | | | | | | | | | 2 | 39 | 0 | | | | | | | | 2 | 40 | 0 | | | | |
| 296 366 | С | G | Т | Т | Т | С | A | Α | G | т | G | T | т | С | G | T | A | G | G, | c | | and Fi | | 25 | Briles |
| | | | | | | | | | 2 | 41 | 0 | | | | | | | | 24 | 42 | 0 | | | | |
| 296 386 | G | A | т | С | т | T | Ċ | Α | т | С | Т | Т | G | т | С | т | T | С | A | A | | and Fi | | 25 | Briles |
| | | | | ,, | | | | | 2 | 43 | 0 | | | | | | | | 24 | 14(| 0 | | | | |
| 296 406 | A | G | G | т | С | A | A | A | т | С | A | G | G | т | Α | G | G | A | T | T | | and Fi | | 25 | Briles |
| | _ | | | | | | | | 2 | 45 | 0 | | | • | | | | | 24 | - 16(|) | | | | ? |
| 296 426 | T | С | т | С | С | T | G | T | т | т | С | Α | A | A | G | T | T | T | Α ' | T | | and Fi | | 25 | Briles |
| | | , | | | | | | | 2 | 1 47 | 0 | | | | | | | | | | | | | | |
| 296 446 | G | G | т | G | G | С | С | С | т | G | G | т | T | G | A | A | G | | | | | and Fi SP100D | _ | 25 | Briles |

recoration 'Decoration #1': Shade (with solid black) residues that ratch the Consensus exactly.